ABSTRACT OF THE DISCLOSURE

<u>METHOD OF DISTRIBUTING COMMUNICATIONS WITHIN A CELL
OF A RADIO-COMMUNICATION NETWORK, AND A
CORRESPONDING DEVICE AND BASE STATION.</u>

The invention relates to a method of distributing communications established by radio-communication terminals, within a geographic cell of a radio-communication network, the geographic cell being sub-divided into at least two geographic sectors.

According to this invention, the method comprises a step of modifying, by rotation, the orientation of the sectors within said cell.

Figure 2b

41 → $\quad$ Y $\quad$ Rate $(S_i) \geq$ Rate_Max $\quad$ N

$\qquad$ $\forall i \in [1,N]$

42 → $\quad$ Choice of S_{sat} such that

$\qquad$ Rate(S_{sat}) = max(Rate(S_i))

43 → $\quad$ Measurement of Rate(S_i) for the 2 sectors

$\qquad$ S_{sat-1} and S_{sat+1} adjacent to S_{sat}

44 → $\quad$ Determination of the sector S_{min} such that

$\qquad$ Rate(S_{min}) = min(Rate(S_{sat-1}),Rate(S_{sat+1}))

Time T

49

45 → $\quad$ Rotation through an angle α in the

$\qquad$ direction from S_{sat} towards S_{min}

46 → $\quad$ Measurement of Rate(S'_i)

$\qquad$ $\forall i \in [1,N]$

47 → $\quad$ Y $\quad$ An S'_i exists such that $\quad$ N

$\qquad$ Rate$(S'_i) \geq$ Rate(S_{sat})

48 → New
Position
Established

Fig. 4a

41' → Y $Nblinks(S_i) \geq NbLinks\_Max$ N
$\forall i \in [1,N]$

42' → Choice of S_{sat} such that
$NbLinks(S_{sat}) = max(NbLinks(S_i))$

43' → Measurement of $NbLinks(S_i)$ for the 2 sectors
S_{sat-1} and S_{sat+1} adjacent to S_{sat}

44' → Determination of the sector S_{min} such that
$NbLinks(S_{min}) = min(NbLinks(S_{sat-1}),NbLinks(S_{sat+1}))$

Time T
49

45' → Rotation through an angle α in the
direction from S_{sat} towards S_{min}

46' → Measurement of $NbLinks(S'_i)$
$\forall i \in [1,N]$

47' →   Y   An S'$_i$ exists such that   N
NbLinks(S'$_i$) ≥ NbLinks(S$_{sat}$)

48' →   New
                  Position
                  Established

Fig. 4b